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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/940,569	08/28/2001	Shinichiro Tsuda	450100-03428	5051
75	90 08/14/2002			
WILLIAM S. FROMMER, Esq. c/o FROMMER LAWRENCE & HAUG LLP 745 Fifth Avenue			EXAMINER	
			WELLS, KENNETH B	
New York, NY 10151			ART UNIT	PAPER NUMBER
			2816	

Please find below and/or attached an Office communication concerning this application or proceeding.

			ah			
	Application No.	Applicant(s)				
Office Action Summary	09/940,569	TSUDA, SHIN	IICHIRO			
Office Action Summary	Examiner	Art Unit				
The MAN INC DATE of the committee of the	Kenneth B. Wells					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on <u>28 A</u>						
·_	s action is non-fir					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-7</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-7</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>28 August 2001</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
 Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲	Interview Summary (PTO-413) Pape Notice of Informal Patent Application Other:	• •			

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1. The drawings are objected to because Fig. 1 needs a "prior art" label. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

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2. The disclosure is objected to because of the following informalities: on page 2, line 22, "the" should be changed to --a--, and "The" should be changed to --A--. On page 3, line 5, --the-- should be inserted after "In". On page 11, line 2, the comma should be deleted. On page 21, line 1, "it is constructed lest...Fig. 9" is grammatically improper and makes no sense.

Appropriate correction is required.

3. Claims 1 and 7 are objected to because of the following informalities: in claim 1, line 3, "can be set" is improper because it is not a positive recitation of the invention, and should be changed to --is set--. In claim 7, line 2, "similar" is an indefinite term and should therefore be changed to the acceptable terminology "substantially the same". On line 9 of

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claim 7, "multipliers" should be made singular. Appropriate correction is required.

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Sato.

Note Fig. 1, where the main filter is element 4; the external control signal is the output of comparator 3; the subordinate filter is element 1; the signal generator is the circuitry (not shown) which outputs the signal fsc; the phase difference detector is element 2; the reference signal generator is the Vref generator; and the error detector is comparator 3.

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been

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obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made. Claims 2-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sato.

The various limitations recited in these claims, though not disclosed by Sato, would have been obvious to those having ordinary skill in the art who will easily recognize that the ideal phase difference of the two inputs applied to the phase difference detector element 2 is 900 or -900, that the filter 1 can be an active filter and that the phase difference detector can be constructed of a well-known multiplier circuit. The use of a compensating means having the details recited in claim 7 also would have been obvious since this is also an old and well-known device for correcting offset errors in a multiplier circuit, of which fact official notice is taken.

- 6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth B. Wells whose telephone number is (703) 308-4809. The examiner can

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normally be reached on Monday through Friday from 7:30am to 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy P. Callahan, can be reached on (703) 308-4876. The fax phone number for this Group is (703) 308-7722.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0956.

Kenneth B. Wells
Primary Examiner
Art Unit 2816

August 12, 2002